

ANSWERS: Crystal ball questions on Drawing organic molecules

<p>octane</p> $\begin{array}{cccccccc} & \text{H} & \text{H} & \text{H} & \text{H} & \text{H} & \text{H} & \text{H} \\ & & & & & & & \\ \text{H} & - \text{C} & - \text{C} & - \text{C} & - \text{C} & - \text{C} & - \text{C} & - \text{C} - \text{H} \\ & & & & & & & \\ & \text{H} & \text{H} & \text{H} & \text{H} & \text{H} & \text{H} & \text{H} \end{array}$	<p>a straight chain alkane with 16 hydrogen atoms</p> $\begin{array}{cccccccc} & \text{H} & \text{H} & \text{H} & \text{H} & \text{H} & \text{H} & \text{H} \\ & & & & & & & \\ \text{H} & - \text{C} & - \text{C} & - \text{C} & - \text{C} & - \text{C} & - \text{C} & - \text{C} - \text{H} \\ & & & & & & & \\ & \text{H} & \text{H} & \text{H} & \text{H} & \text{H} & \text{H} & \text{H} \end{array}$	<p>alcohol with one 1 carbon atom</p> $\begin{array}{c} \text{H} \\ \\ \text{H} - \text{C} - \text{O} - \text{H} \\ \\ \text{H} \end{array}$
<p>polymer containing a methyl group (CH₃) on every 2nd carbon atom</p> $\left[\begin{array}{cccccc} \text{CH}_3 & \text{H} & \text{CH}_3 & \text{H} & \text{CH}_3 & \text{H} \\ & & & & & \\ - \text{C} & - \text{C} & - \text{C} & - \text{C} & - \text{C} & - \text{C} - \\ & & & & & \\ \text{H} & \text{H} & \text{H} & \text{H} & \text{H} & \text{H} \end{array} \right]_n$	<p>alkene with 3 carbon atoms</p> $\begin{array}{c} & & \text{H} \\ & & \\ \text{H} & & \text{C} - \text{H} \\ & \diagdown & / \\ & \text{C} = \text{C} \\ & / & \diagdown \\ \text{H} & & \text{H} \end{array}$	<p>monomer used to make polythene</p> $\begin{array}{c} \text{H} & & \text{H} \\ & \diagdown & / \\ & \text{C} = \text{C} \\ & / & \diagdown \\ \text{H} & & \text{H} \end{array}$
<p>contains an OH group and 2 carbon atoms</p> $\begin{array}{c} \text{H} & \text{H} \\ & \\ \text{H} - \text{C} & - \text{C} - \text{O} - \text{H} \\ & \\ \text{H} & \text{H} \end{array}$	<p>polythene (or polyethene)</p> $\left[\begin{array}{cccccc} \text{H} & \text{H} & \text{H} & \text{H} & \text{H} & \text{H} \\ & & & & & \\ - \text{C} & - \text{C} & - \text{C} & - \text{C} & - \text{C} & - \text{C} - \\ & & & & & \\ \text{H} & \text{H} & \text{H} & \text{H} & \text{H} & \text{H} \end{array} \right]_n$	<p>alkane with 5 carbon atoms</p> $\begin{array}{cccccc} & \text{H} & \text{H} & \text{H} & \text{H} & \text{H} \\ & & & & & \\ \text{H} & - \text{C} & - \text{C} & - \text{C} & - \text{C} & - \text{C} - \text{H} \\ & & & & & \\ & \text{H} & \text{H} & \text{H} & \text{H} & \text{H} \end{array}$